National Institute of Environmental Health Sciences

Effects of air pollution and meteorological parameters on human health in the city of Athens, Greece

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Abstract:

The impact of air pollution (CO, NO, NO2, SO2, O 3) and meteorological parameters (air temperature, humidity and atmospheric pressure) on three indicators of human morbidity (circulatory, respiratory and skin diseases) is quantified, while the sensitivity of the results to different model specifications is tested. Findings indicate that higher SO2 and CO levels significantly increase circulatory and skin diseases, respectively, while higher NO and O3 concentrations increase respiratory diseases. Air temperature is significantly associated with all human health indicators. This work highlights the need for lower air pollution standards for the city of Athens and a wider climate change policy. Copyright © 2010 Inderscience Enterprises Ltd.

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Resource Description

Exposure :

weather or climate related pathway by which climate change affects health

Air Pollution, Meteorological Factors, Meteorological Factors, Temperature

Air Pollution: Ozone, Other Air Pollution

Air Pollution (other): NO;NO2;CO;SO2

Temperature: Fluctuations

Geographic Feature:

resource focuses on specific type of geography

Urban

Geographic Location:

resource focuses on specific location

Non-United States

Non-United States: Europe

European Region/Country: European Country

Other European Country : Greece

Health Impact: ☑

specification of health effect or disease related to climate change exposure

Cardiovascular Effect, Dermatological Effect, Respiratory Effect

Cardiovascular Effect: Other Cardiovascular Effect

Cardiovascular Disease (other): circulatory morbidity

Respiratory Effect: Other Respiratory Effect

Respiratory Condition (other) : respiratory disease morbidity

Resource Type: ☑

format or standard characteristic of resource

Research Article

Timescale: ☑

time period studied

Time Scale Unspecified